## **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

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- 1. (Cancelled)
- 2. (Currently Amended) The substrate cleaning apparatus according to claim 1, A substrate cleaning apparatus comprising:

a processing bath to be filled with a cleaning chemical;

an ultrasonic oscillator disposed in the processing bath and immersed in the cleaning chemical; and

a retainer for retaining a substrate to be immersed in the cleaning chemical such that ultrasonic waves originating from the ultrasonic oscillator are radiated onto a back surface of the substrate.

wherein the ultrasonic oscillator has a plurality of oscillation sources disposed in a uniformly dispersed manner.

3. (Currently Amended) The substrate cleaning apparatus according to claim 1, further comprising A substrate cleaning apparatus comprising:

a processing bath to be filled with a cleaning chemical;

an ultrasonic oscillator disposed in the processing bath and immersed in the cleaning chemical;

a retainer for retaining a substrate to be immersed in the cleaning chemical such that ultrasonic waves originating from the ultrasonic oscillator are radiated onto a back surface of the substrate; and

a rotary mechanism for rotating the substrate retained by the retainer.

4. (Currently Amended). The substrate cleaning apparatus according to claim 1, further comprising A substrate cleaning apparatus comprising:

a processing bath to be filled with a cleaning chemical;

an ultrasonic oscillator disposed in the processing bath and immersed in the cleaning chemical;

a retainer for retaining a substrate to be immersed in the cleaning chemical such that ultrasonic waves originating from the ultrasonic oscillator are radiated onto a back surface of the substrate; and

propagation control apparatus for scattering or damping ultrasonic waves originating from the ultrasonic oscillator.

5. (Currently Amended) The substrate cleaning apparatus according to claim 4, A substrate cleaning apparatus comprising:

a processing bath to be filled with a cleaning chemical;

an ultrasonic oscillator disposed in the processing bath and immersed in the cleaning chemical;

a retainer for retaining a substrate to be immersed in the cleaning chemical such that ultrasonic waves originating from the ultrasonic oscillator are radiated onto a back surface of the substrate; and

a propagation control apparatus for scattering or damping ultrasonic waves originating from the ultrasonic oscillator, wherein the propagation control apparatus is constituted by means of placing, in a propagation path of ultrasonic waves, a plate-like member having a plurality of openings selectively formed therein.

- 6. (Original). The substrate cleaning apparatus according to claim 4, wherein the propagation control means includes jet nozzles for squirting a chemical in the propagation path of ultrasonic waves, thus circulating a flow of chemical.
  - 7. (Cancelled)

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8. (Withdrawn) A substrate cleaning method characterized in that a substrate whose surface has been processed is immersed in a cleaning chemical filled in a processing bath, and ultrasonic waves are radiated onto a back surface of the substrate, thereby cleaning a front surface of the substrate.

- 9. (Withdrawn) The substrate cleaning method according to claim 8, wherein ultrasonic waves originate from a plurality of origination sources disposed in a dispersed manner.
- 10. (Withdrawn) The substrate cleaning method according to claim 8, wherein the substrate is cleaned while being rotated.
- 11. (Withdrawn) The substrate cleaning method according to claim 8, wherein ultrasonic waves are radiated by way of a propagation control member for scattering or damping ultrasonic waves.
- 12. (Withdrawn) The substrate cleaning method according to claim 8, wherein cleaning is effected while the chemical through which ultrasonic waves propagate is stirred or agitated.
- 13. (Withdrawn) A method of manufacturing a semiconductor device through use of the substrate cleaning method defined in claim 8.